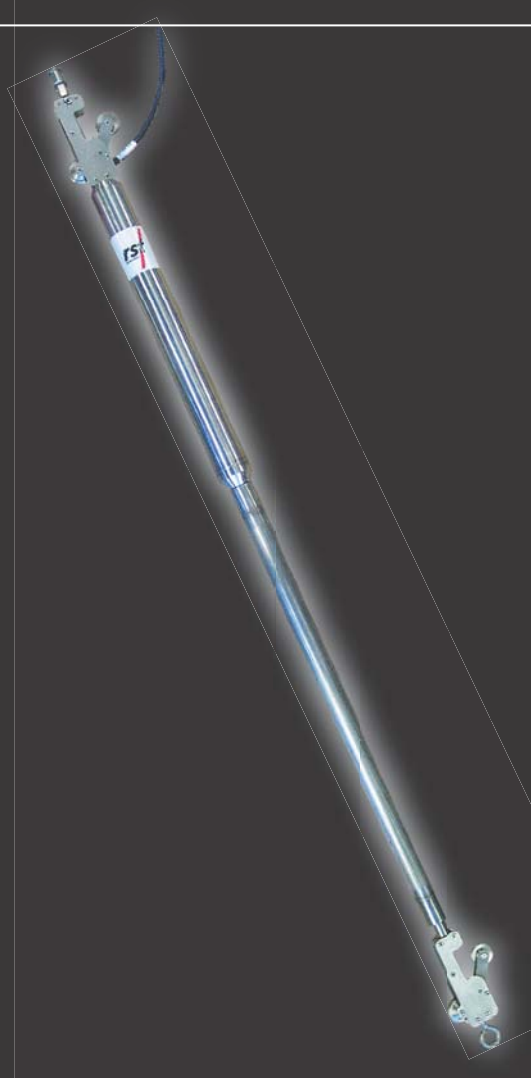


RST Electrolevel Vertical In-place Inclinometer Systems are designed to measure lateral movement of soil and rock or deflection of man made structures such as piles or retaining walls, when remote and continuous monitoring is required.

In-place inclinometers consist of one or more ceramic electrolevel sensors housed in a 38 mm (1.5 in.) diameter, water-tight, stainless steel enclosure. Each sensor is separated from the next by stainless steel rods and wheel assemblies. Rod lengths can be varied to alter the gauge length and sensors can be concentrated in areas of expected movement.

Wheel assemblies are sized to fit 70 mm (2.75 in.) or 85 mm (3.34 in.) O.D. inclinometer casing. As movement occurs and the inclinometer casing deforms, each sensor can be automatically monitored and can be read at a remote readout location. If necessary, an alarm can be triggered when movement reaches a preset critical rate or magnitude.



FEATURES

- Optional single cable BUS system
- Lower cost than servo-accelerometer systems
- On board electronics
- Integral thermistor
- Removable
- High precision, wheeled probe
- Tilt and temperature calibration
- Easily adaptable to datalogging

FUNCTIONS

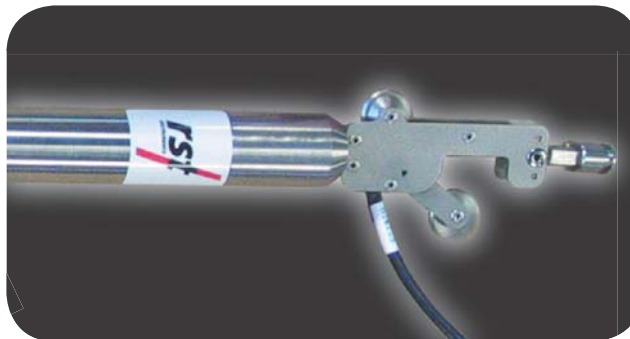
- Monitoring stability adjacent to excavations or underground workings.
- Monitoring deflection of piles, piers, abutments or retaining walls.
- Continuous, automated reading where early warning of movements is essential for protecting life and equipment.
- Monitoring dams and embankments.

ACCESSORIES (Specify when ordering)

- Model ICD3540 portable readout
- Dataloggers
- Terminal stations
- Near real time 'GeoViewer' software

ORDERING INFORMATION (Specify when ordering)

- Part number
- Number of boreholes
- Number of sensors per borehole
- Location of sensors in borehole
- Gauge length
- Wheel assembly size
- Length of signal cable



Specifications may change without notice. ICB0009G

ELECTROLEVEL VERTICAL IN-PLACE INCLINOMETER SYSTEM



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www.rstinstruments.com

The RST Instruments Management System is certified to ISO 9001:2000



ELECTROLEVEL VERTICAL IN-PLACE INCLINOMETER SYSTEM SPECIFICATIONS

ELECTRICAL

Tilt Range	±10°
Sensitivity / Repeatability	±10 arc seconds
Resolution	2 arc seconds (averaging)
Signal Cable	22 gauge shielded water blocked, polyurethane jacket
Datalogger	CR-10X or Geomation
Temperature Sensor	Thermistor 2252Ω

ENVIRONMENTAL

Operating Temperature	-20 to 50°C (-4 to 122°F)
Compensated Thermal Zero Drift	±0.01% F.S. / °C
Calibration Temperature (Requested calibration temperature is also available)	5 - 50°C (41-122°F)

MECHANICAL

Gauge Length	0.5 - 3 meters
Housing Diameter	38mm (1.5 in.) (sensor)
Wheel Assembly	70 mm (2.75 in.) 85 mm (3.34 in.)
Extension Rod Diameter	19 mm (0.75 in.)

ORDERING INFO - CABLES

CONVENTIONAL & WIRE ROPE SYSTEM	PART #
6 conductor, 22 gauge polyurethane jacketed cable	EL380006
BUS SYSTEM	PART #
8 conductor, 24 gauge polyurethane jacketed cable	EL380008
SUSPENSION CABLE - For Wire Rope System Only	PART #
Stainless steel suspension cable 3/32"	IC7300

ORDERING INFO - SENSORS

CONVENTIONAL CABLE SYSTEM	PART #
ELS IPI sensor assembly: Biaxial for 70 mm casing	IC7000
ELS IPI sensor assembly: Biaxial for 85 mm casing	IC7005
ELS IPI sensor assembly: Uniaxial for 70 mm casing	IC7100
ELS IPI sensor assembly: Uniaxial for 85 mm casing	IC7105
BUS CABLE SYSTEM	PART #
ELS IPI bus sensor assembly: Biaxial for 70 mm casing	IC7001
ELS IPI bus sensor assembly: Biaxial for 85 mm casing	IC7006
ELS IPI bus sensor assembly: Uniaxial for 70 mm casing	IC7101
ELS IPI bus sensor assembly: Uniaxial for 85 mm casing	IC7106
WIRE ROPE SYSTEM	PART #
ELS IPI wire rope sensor assembly: Biaxial 70 mm casing with bottom wheel assembly	IC7000R
ELS IPI wire rope sensor assembly: Biaxial 85 mm casing with bottom wheel assembly	IC7005R
ELS IPI wire rope sensor assembly: Uniaxial 70 mm casing with bottom wheel assembly	IC7100R
ELS IPI wire rope sensor assembly: Uniaxial 85 mm casing with bottom wheel assembly	IC7105R

ORDERING INFO - EXTENSION RODS

CONVENTIONAL, BUS, OR WIRE ROPE SYSTEMS	PART #
Extension rod for 0.5 m gauge length	IC7050-0.5M
Extension rod for 1 m gauge length	IC7050-1M
Extension rod for 1.5 m gauge length	IC7050-1.5M
Extension rod for 2 m gauge length	IC7050-2M
Extension rod for 2.5 m gauge length	IC7050-2.5M
Extension rod for 3 m gauge length	IC7050-3M

ORDERING INFO - COLLAR HANGERS

CONVENTIONAL OR BUS SYSTEM	PART #
Collar hanger w/1 bottom wheel assembly for 70 mm casing	IC7070
Collar hanger w/1 bottom wheel assembly for 85 mm casing	IC7085
WIRE ROPE SYSTEM	PART #
Collar hanger for 70 mm casing	IC7070R
Collar hanger for 85 mm casing	IC7085R

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